Data Sheet (Cat.No.TMAY-02135)

TargetMol

Anti-CD19 Antibody (7J519)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	7J519
Purification:	Protein A

Applications

Verified Activity:	CD19 was immunoprecipitated using: -Lane A:0.5 mg Daudi Whole Cell Lysate. -2 µL anti-CD19 rabbit monoclonal antibody and 15 µl of 50 % Protein G agarose. -Primary antibody: -Anti-CD19 rabbit monoclonal antibody, at 1:100 dilution. -Secondary antibody: -Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution. -Developed using the odyssey technique. -Performed under reducing conditions. -Predicted band size: 61 kDa. -Observed band size: 100 kDa
Application:	ELISA,IP
Recommended	ELISA: 1:5000-1:10000; IP: 1-4 µL/mg of lysate

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human CD19 protein (TMPY-01949)
Antigen Species:	Human
Synonyms:	CVID3;B4;CD19 molecule
Biology Area:	Cancer Drug Targets

Research Background

The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. Cluster of differentiation 19 (CD19) is a member of CD system. CD19 is a cell surface molecule that assembles with the antigen receptor of B-cells. This results in a descent in the threshold for antigen receptor-

dependent stimulation. A simplified view holds that the ability of B-cells to respond to the various antigens in a specific and sensitive manner is achieved in the presence of low-affinity antigen receptors. CD19 primarily acts as a B-cell co-receptor in conjunction with CD21 and CD81. The formation of the receptor complex is induced by antigen and CD19, induced by exogenous antigen, has been found cytoplasmic tail phosphorylated and bind to sIg.Cancer ImmunotherapyImmune CheckpointImmunotherapyTargeted Therapy